## INORGANIC SOLVENT PROCESS FOR SO2 POLLUTION CONTROL

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## ABSTRACT

An organic salt mixture has been developed that has a high absorbing capacity for sulfur dioxide. Upon testing in flue gas atmospheres it appears to be very effective in the comparatively complete removal of  $SO_2$  from stack gases, with reasonable loading efficiencies and contacting characteristics. The inorganic salts are a fluid with a very low viscosity at the normal stack gas temperatures of from 250 to  $^450$  F. The vapor pressure of this melt is in the neighborhood of  $^105$  mm, and thus vapor pressure losses would be minimal. The salts are also apparently unaffected by fly ash, and can be easily separated from a fly ash slurry. The  $SO_2$  can be regenerated from the absorbed melt in a conventional manner. It appears that this solvent could provide an improved and lower cost  $SO_2$  scrubbing system than others currently being tested.